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Material Safety Data Sheet

1.0 Product and Company Identification

Identification of the Preparation

**HP LaserJet Print Cartridge
C4127A/X**

Company Identification

Hewlett-Packard Company
11311 Chinden Boulevard
Boise, Idaho 83714
United States

Emergency Telephone Number Hewlett-Packard Health Effects Line

1-800-457-4209 (USA and Canada)
503-494-7199 (USA direct)
Singapore: +001-800-332-13321

General Information Telephone Number

208-323-2551 (USA direct)

Local Contact Information

Ireland

Liffey Park Technology Park
Barnhall Road Leixlip, Co.
Kildare, Ireland
Phone: 01 6150000

United Kingdom

Hewlett-Packard, Ltd.
Cain Road, Amen Corner
Bracknell, Berkshire, RG12 1 HN
Phone: 1344 36-0000

Hazard Rating	US NFPA/HMIS
Health	1
Flammability	1
Instability/Reactivity	0
Special	N/A

2.0 Composition/Information on Ingredients

This product is a toner preparation that is used in Hewlett-Packard LaserJet 4000/4050 printers.

Component/Substance	CAS Number	EU Number	% by Weight	Risk Phrases
Styrene Acrylate Copolymer	-		40 - 50	
Iron Oxide	1317-61-9	215-277-5	40 - 50	

3.0 Hazard Identification

The preparation is not classified according to EU Directive 1999/45/EC

3.1 Routes of Exposure

Inhalation, ingestion, skin and eyes.



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3.2 Acute Health Hazards

- Inhalation:** Minimal respiratory tract irritation may occur with exposure to large amount of toner dust.
- Ingestion:** ingestion is not applicable route of entry for intended use.
- Skin:** Unlikely to cause skin irritation
- Eyes:** May cause eye irritation.

3.3 Chronic Health Hazards

Prolonged inhalation of excessive amounts of any dust may cause lung damage. Use of this product as intended does not result in inhalation of excessive amounts of dust.

3.4 Carcinogenicity

Refer to section 11.

4.0 First Aid Measures

- Inhalation:** Move person to fresh air immediately. If symptoms occur, consult a physician.
- Ingestion:** Rinse mouth with water. Drink one to two glasses of water. If symptoms occur, consult a physician.
- Skin:** Wash affected areas thoroughly with soap and water. If irritation persists, consult a physician.
- Eyes:** Immediately flush with large amounts of clean, lukewarm water (low pressure) for at least 15 minutes. If irritation persists, consult a physician.

5.0 Fire Fighting Measures

- Extinguishing media** CO₂, water, dry chemical
- Unsuitable Extinguishing Media** None known
- Special Firefighting Procedures** None
- Unusual fire and explosion hazards** Toner material, like most organic material in powder form, is capable of creating a dust explosion.
- Auto-ignition temperature** No data available
- Flashpoint (method)** Not applicable
- Hazardous Combustion Products** Combustion will produce carbon dioxide and, Possibly toxic chemicals such as carbon monoxide

6.0 Accidental release measures

- 6.1 Spill or leak procedures** Wear personal protective equipment as described in Section 8. Avoid breathing dust. Minimize the release of particles. Vacuum or sweep the material into a bag or other sealed container. If a vacuum is used, the motor must be rated as dust tight. Dispose of waste toner in accordance with local requirements.



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6.2 Environmental precautions

Do not discharge into drains (See also section 13 Disposal Considerations).

7.0 Handling and Storage

Advice on safe handling and protection against fire

Keep material out of reach of children. Avoid inhalation of dust and contact with eyes. Keep away from excessive heat, sparks, and open flames.

Requirements for storage rooms and advice on storage compatibility

Keep out of the reach of children. Keep container closed and store at room temperature. Keep away from strong oxidizers.

8.0 Exposure control/ personal protection

8.1 Exposure Limit Values

USA OSHA (TWA/PEL):	15 mg/m ³ (Total Dust) 5 mg/m ³ (Respirable Fraction)
ACGIH (TWA/TLV):	10 mg/m ³ (Inhalable Particulate) 3 mg/m ³ (Respirable Particulate)
TRGS 900 (Luftgrenzwert):	10 mg/m ³ (Einatembare Partikel) 3 mg/m ³ (Alveolengangige Fraktion)

8.2 Exposure Controls

Respiratory protection	Not required under intended use
Ventilation	Good general ventilation should be sufficient under intended use
Protective gloves	Not required under intended use
Eye protection	Not required under intended use
Other protective equipment	Not required under intended use

9.0 Physical and chemical properties

pH	Not applicable
Boiling point	Not applicable
Flash point	Not applicable
Melting point	100 - 150°C (Softening Point)
Flammability	Non-flammable solid (according to test methods of USA 16 CFR 1500.44 and 84/449/EEC (Annex V) A.IO)
Explosive properties	Toner material, like most organic material in powder form, is capable of creating a dust explosion
Oxidizing properties	No data available
Vapor Pressure	Not applicable
Specific gravity (H ₂ O=1)	1.4 - 1.8
Solubility in water	Negligible
Solubility in organic solvents	Partially soluble in toluene and xylene
Partition coefficient	Not applicable
Viscosity	Not applicable



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Vapor density Not applicable
Evaporation rate Not applicable
Physical state Fine powder
Color Black
Odor Slight plastic odor
Other None known

10.0 Stability and reactivity

Stability Stable under normal storage conditions
Incompatibilities Strong oxidizers
Hazardous decomposition products Combustion will produce carbon dioxide and, Possibly toxic chemicals such as carbon monoxide
Hazardous polymerization Will not occur

11 .0 Toxicological information

Refer to Section 3 for potential health effects and Section 4 for first aid measures

Acute Toxicity:

Inhalation: LC_{50:inh-rat}>5mg/L/4 hrs. (data from similar toner), not harmful.

Ingestion: LD_{50:ori-rat}>2000 mg/kg (data from ingredients of toner), not harmful.

Eye Contact: Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC (data from ingredients of toner).

Skin Contact: Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC.

Chronic Toxicity: No data available

Sensitization: Not classified as a sensitizer according to EU Directive 67/548/EEC and OSHA HCS (US).

Mutagenicity: Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)

Carcinogenicity: Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations (USA), EU Directive, or Proposition 65 (California)

Reproductive Toxicity: Not classified as toxic according to EU Directive 67/548/EEC, California Prop. 65, or DFG (Germany).

Other: Sub-Acute Toxicity (Rat) - 90 day inhalation test, No Observable Effect Level (NOEL): 16 mg/m³. Expected air concentration levels under printing conditions are <0.01mg/m³.



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12.0 Ecological Information

No data available for ecological and wastewater treatment (sewage) systems. Avoid spills and dispose of in accordance with applicable laws and regulations.

13.0 Disposal considerations

Product / unused product / contaminated packaging (for Germany only)
Recommendation: consult with the disposal agency and the relevant authorities;
cleansing agent is water.

14.0 Transportation information

Not a regulated article under DOT, IATA, ADR, or RID

UN Number None

Class None

Proper Shipping Name None

Packing Group None

Special Precautions None

15.0 Regulatory information

US EPA TSCA Inventory All ingredients are listed on TSCA inventory

US EPA TSCA 12(b) None

US California Proposition 65 None

EU Notification All components of this product are compliant with
EU Chemical Inventory regulations.

EU R&S Phrase Information No European Risk Phrases (labeling data)

Dangerous Components None

(CAS No.) wt%

USA Labeling

Symbol Not required

Hazard Warning Not required

Safety Advice Not required

Hazardous Component(s) None

16.0 Other information

Date Prepared: August 1, 2002

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Number:

Revision Information: This document replaces all prior versions of the MSDS

EU Information This MSDS was prepared in compliance with EU Directive
91/155/EEC as amended by 2001/58/EC and USA OSHA
Hazard Communications regulations (29CFR1910:1200).

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